

FIG.3

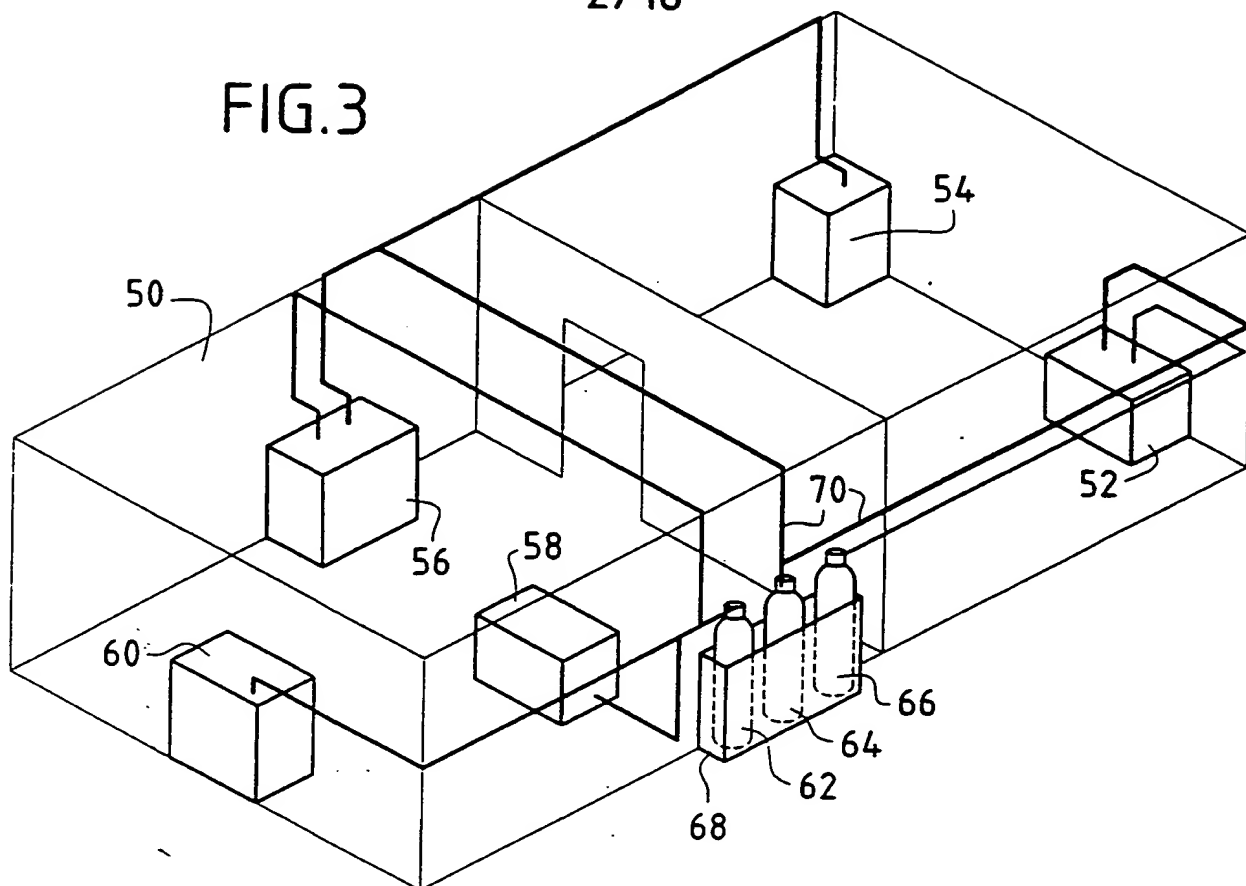
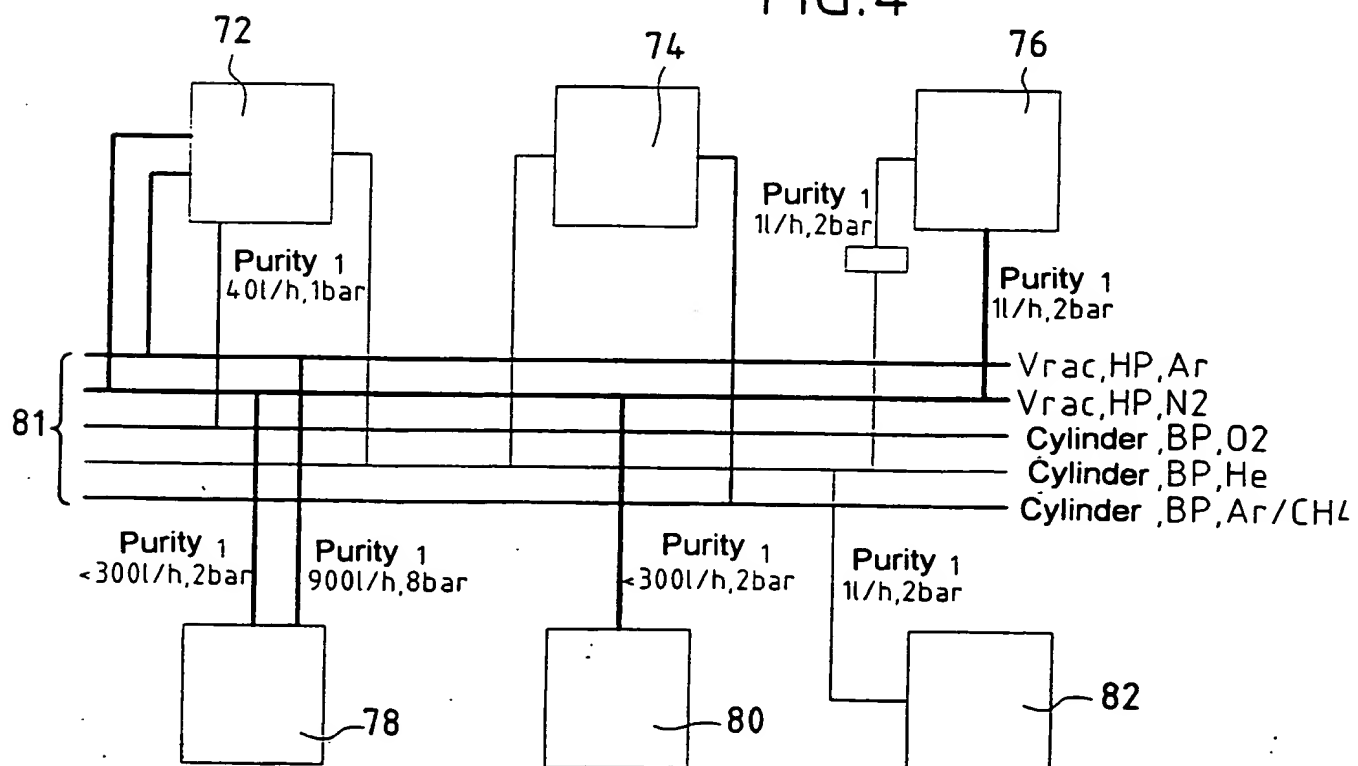


FIG.4



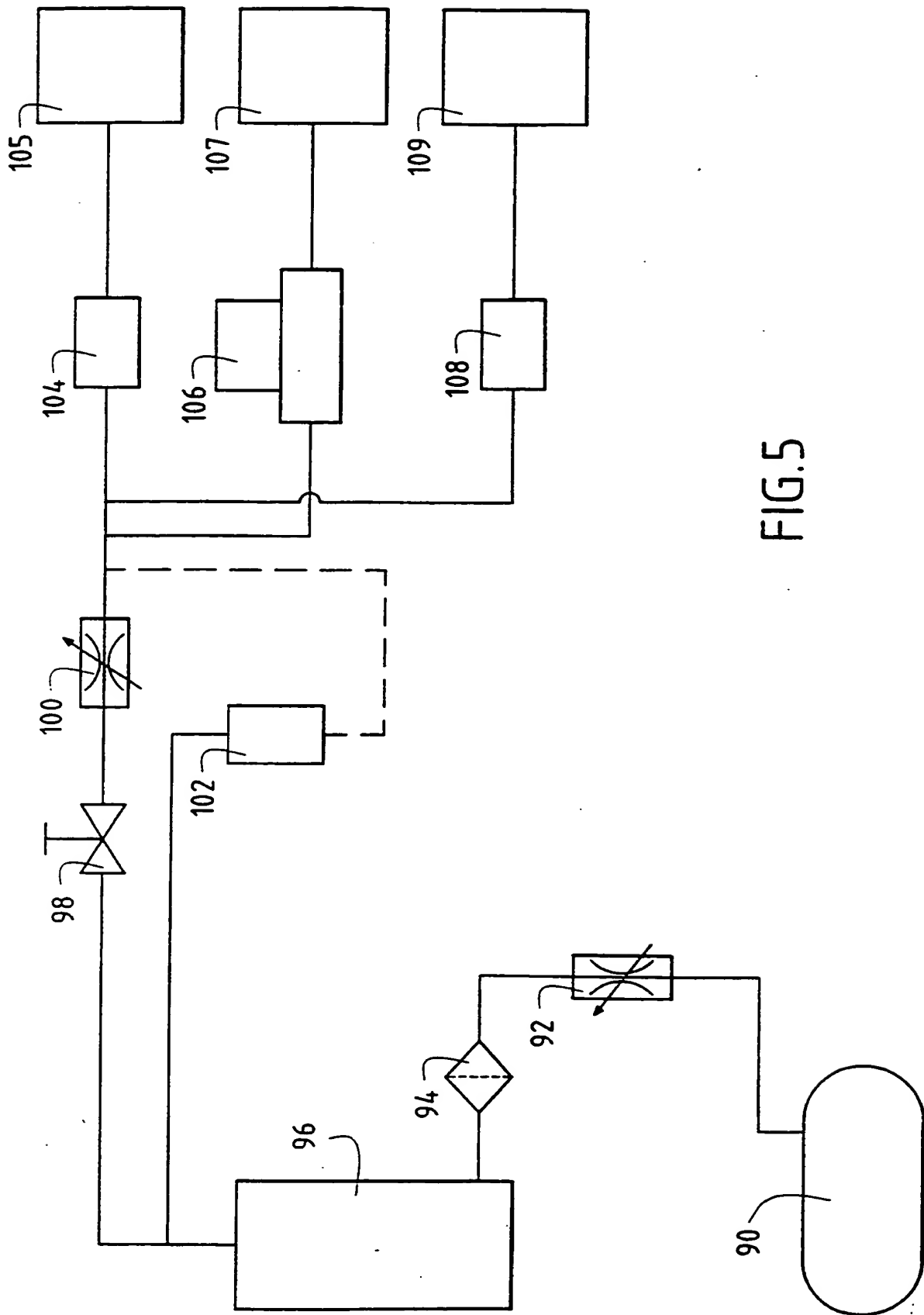


FIG.5

MEASURED
CONCENTRATION (ppm)

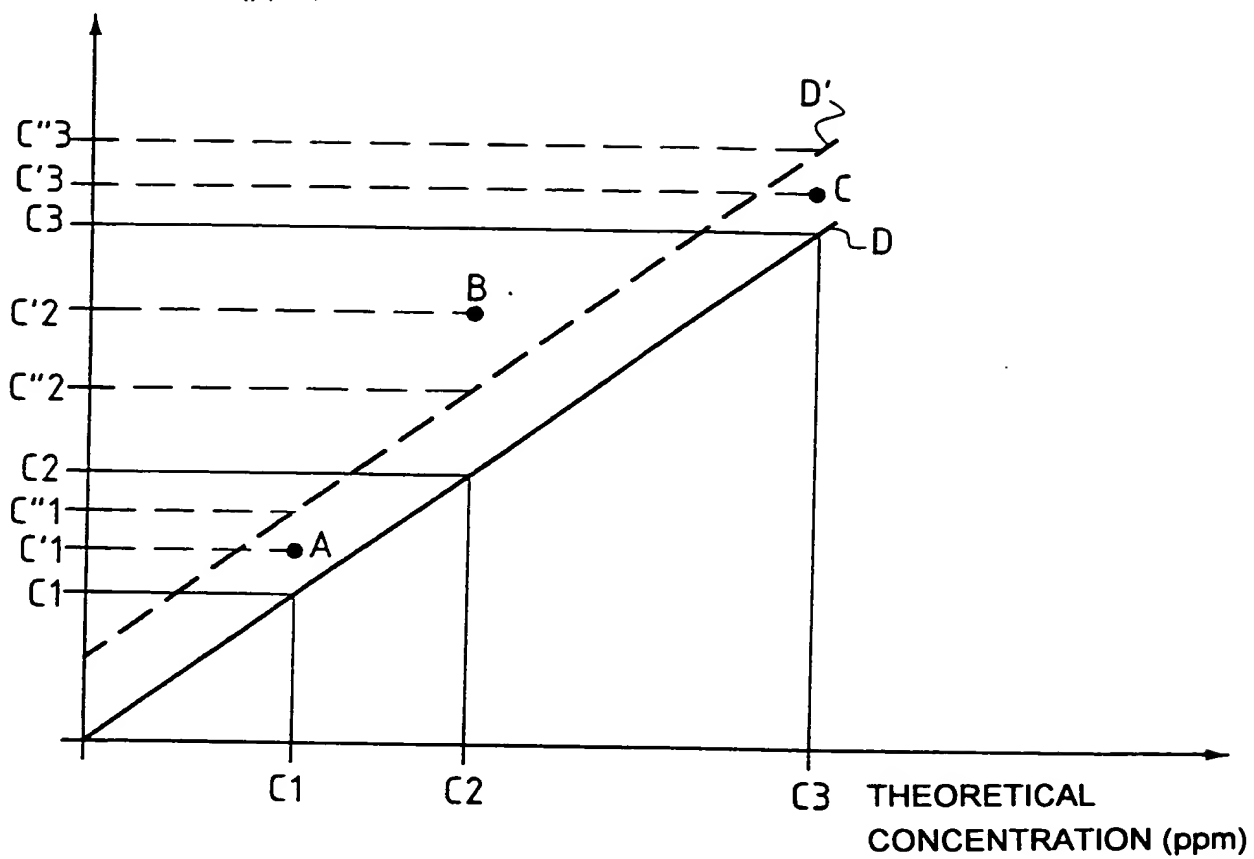


FIG.6

FIG.7A

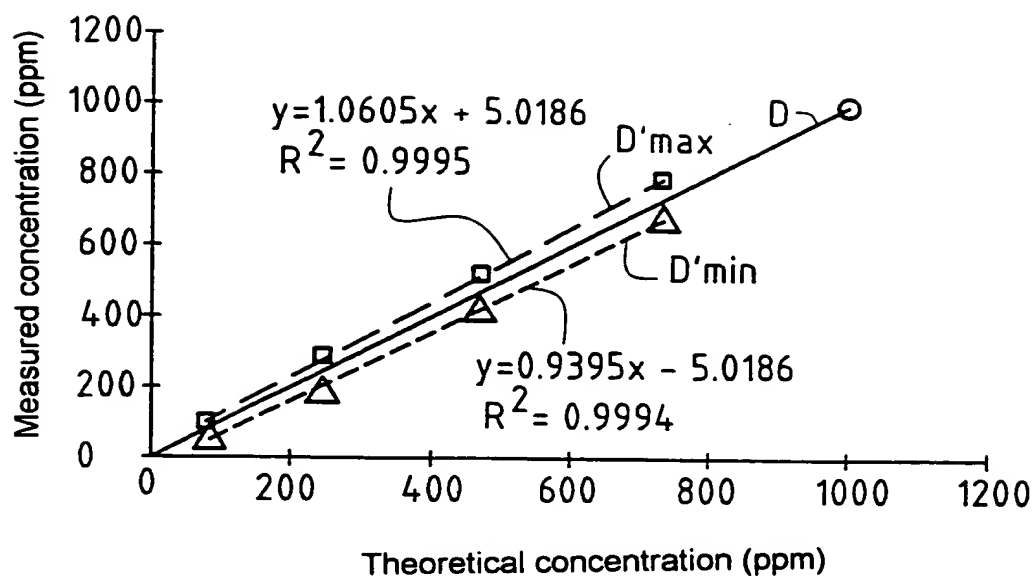


FIG.7B

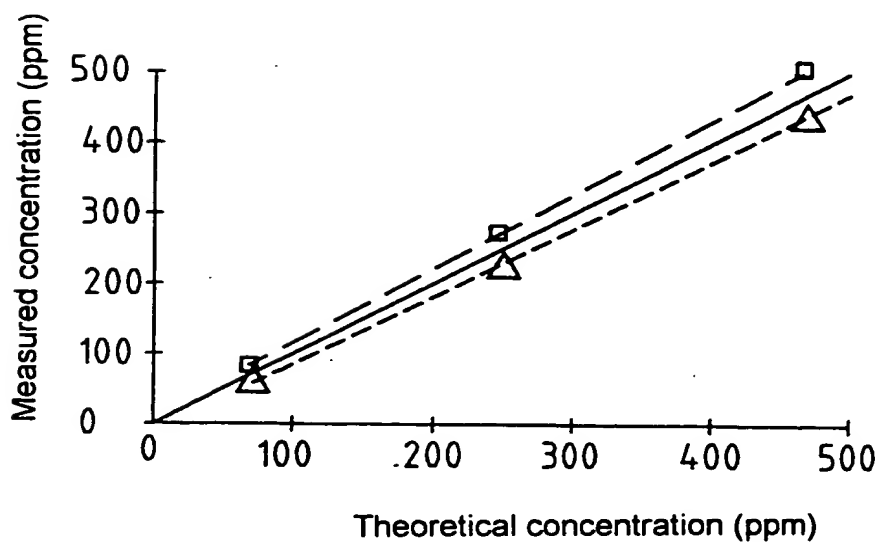


FIG.8

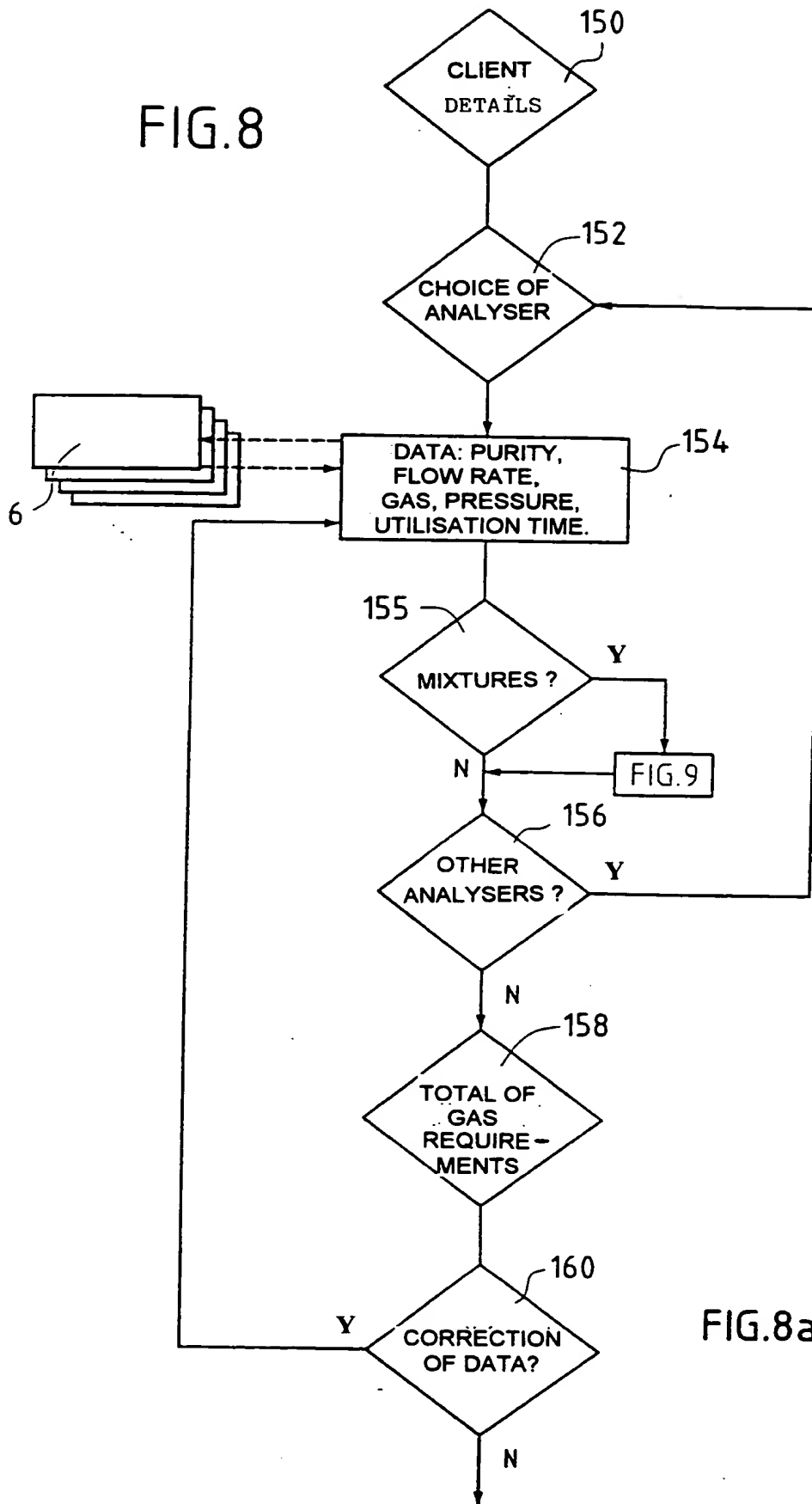


FIG.8a

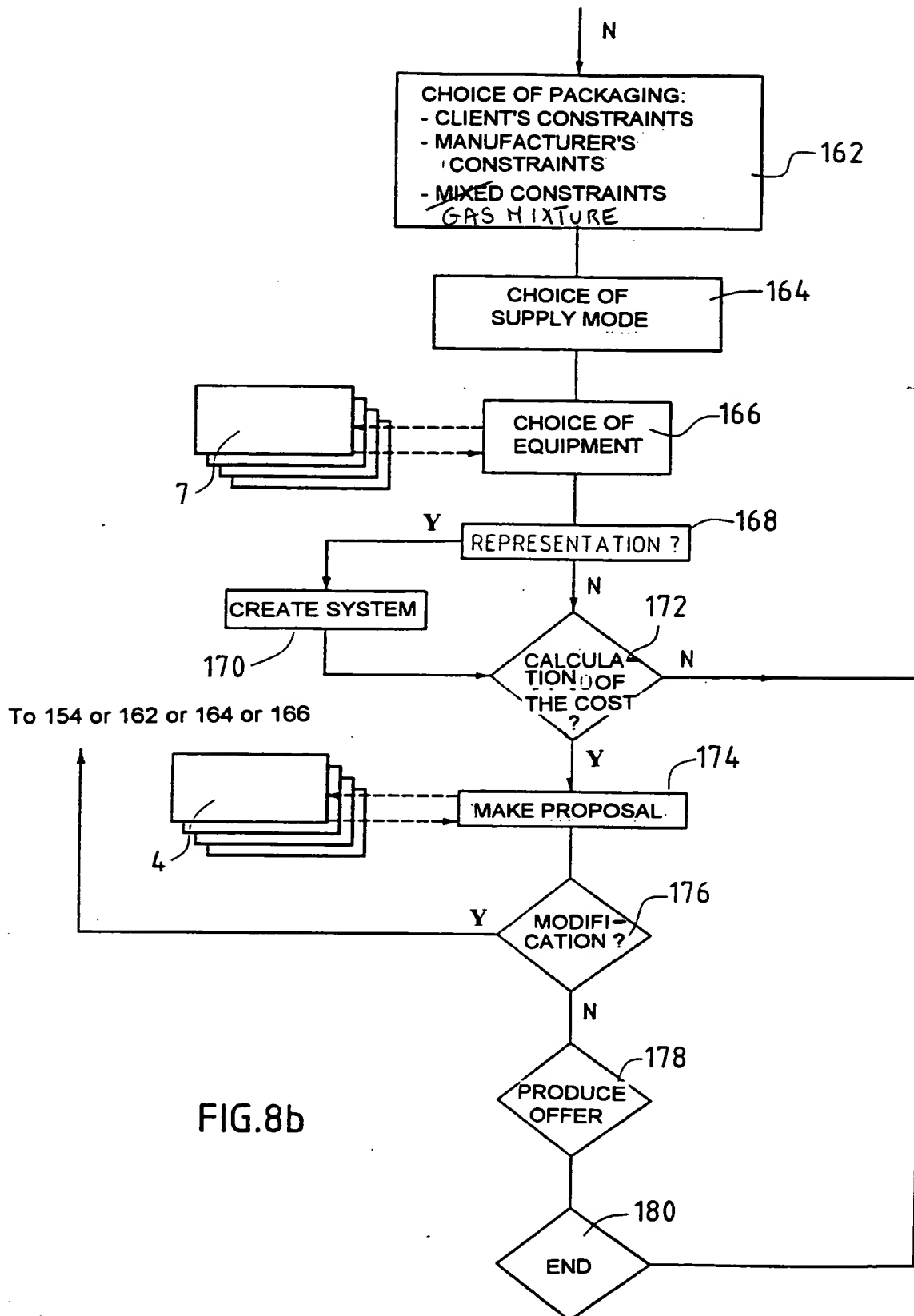
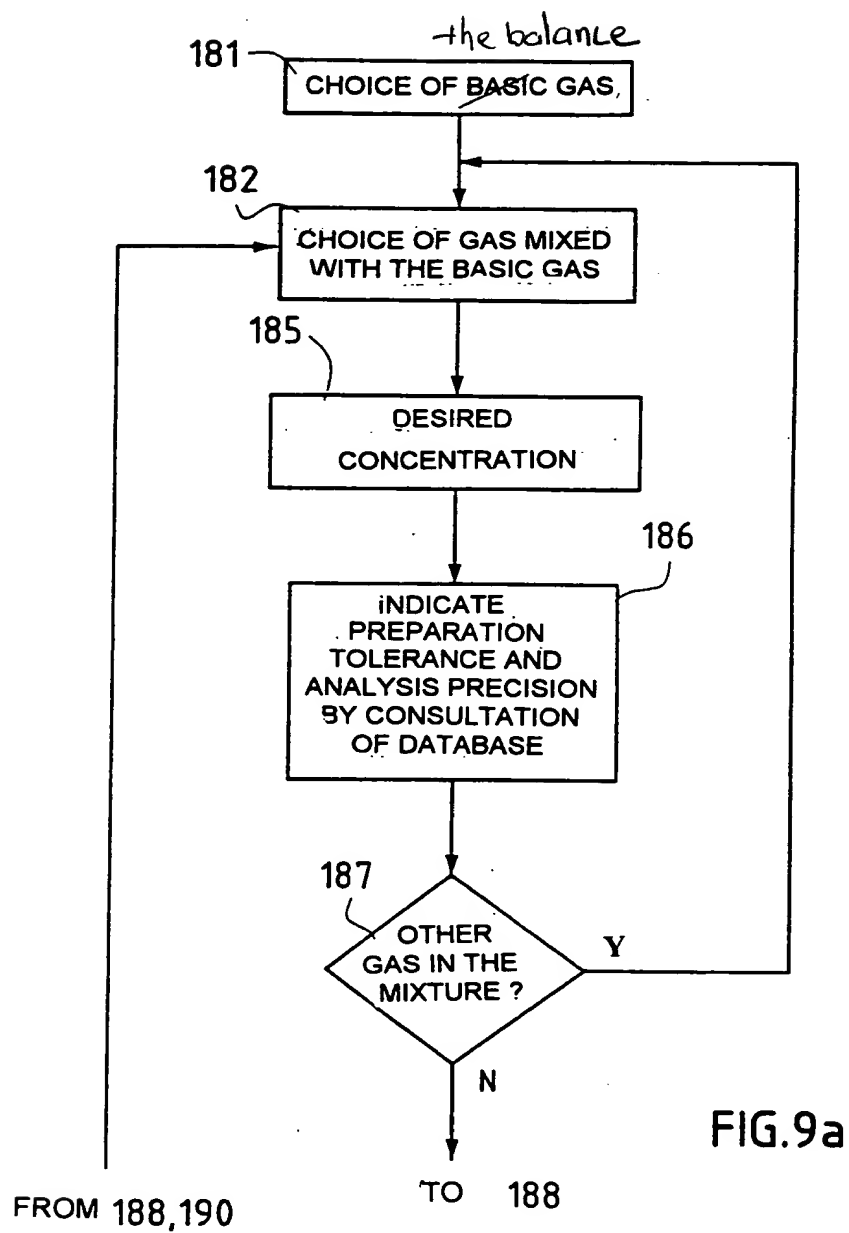


FIG.8b

FIG.9



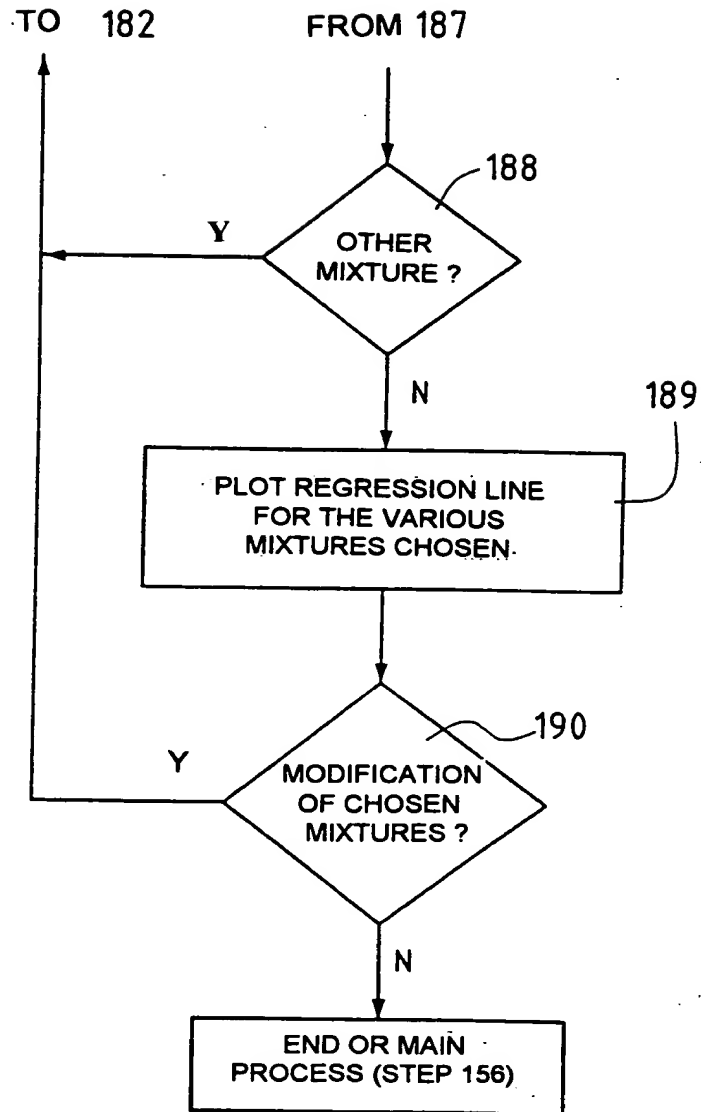


FIG. 9b

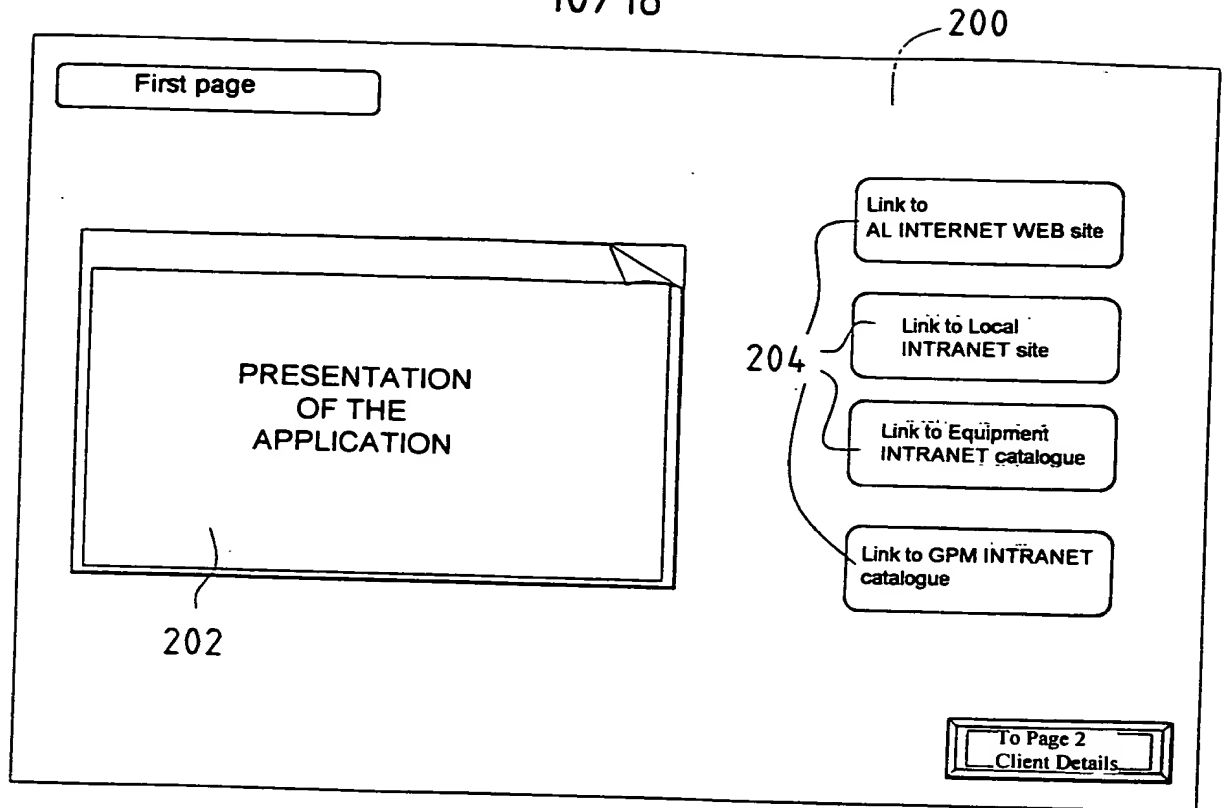


FIG. 10A

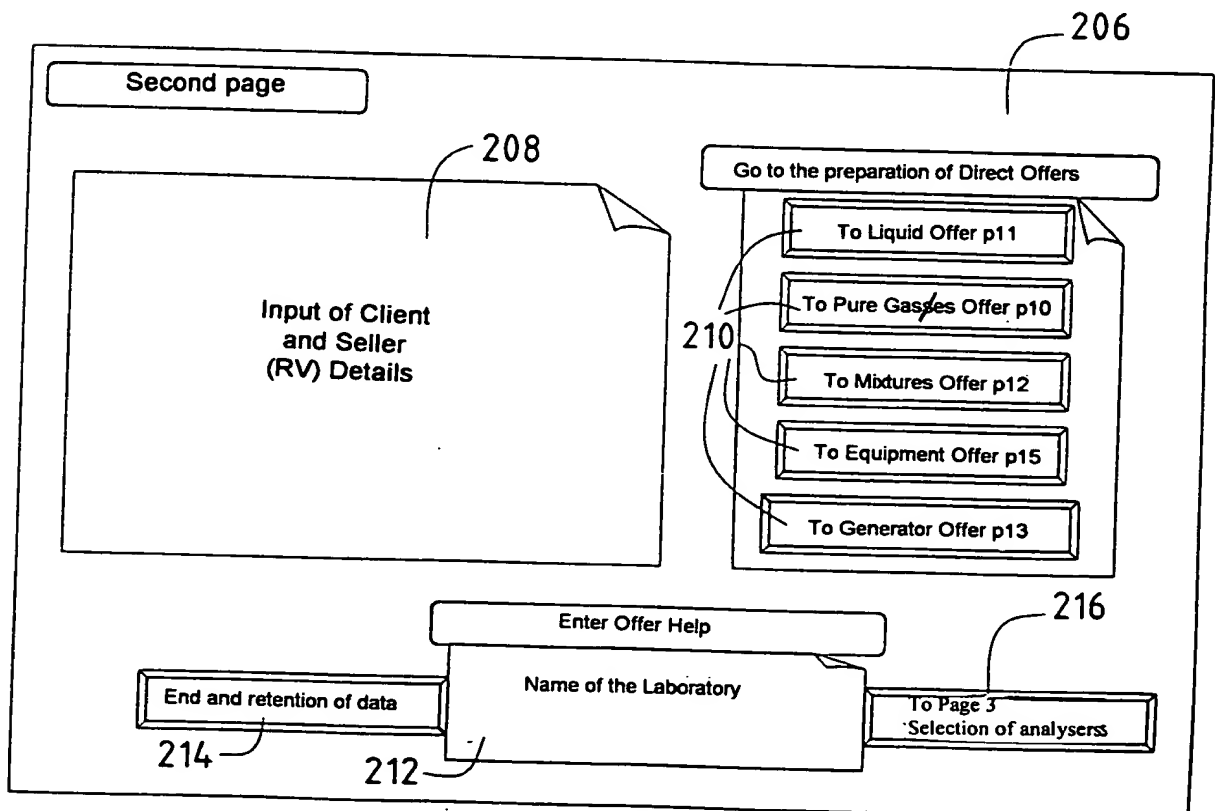


FIG. 10B

FIG. 10D

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244

Page 4: Other Requirement

Constant reminders

Laboratory Name of Analyser

Flow unit Pressure unit

Manager name Pressure Working time App No

Button to Return to Page 3

Liquid gases button Mixtures button

Tab opened for input

Gas ☒ Continuous supply ?

Grade ☒ Pressure Generator ?

Flow or bottles No Volume Time

Standby flow Standby time

246

This tab can be pressed as many times as there are different gasses

FIG.10E

248

Page 5: Summary

Selection

by laboratory 250 by analyser

New lab button page 2

Button to Return to page 3

Go to Page 6 for Calculation

254

Example of output by laboratory

LABORATORY: B1/SDC

Analyser and technique	Name	Tab use	GAS	Purity	Flow	Pressure	Working time (hours)	Bottle size	Vol
					Unit	Unit			Unit
GC/ECD	Jean	Carrier	H ₂	Alphagaz 2	6 sccm	3 bar	1400	N	N
		Cleaning	H ₂	Alphagaz 2	100 sccm	3 bar	400	N	N
		Standard	CF ₄ /N ₂						
RMN	Paul	Cold	N ₂					85	1m ³
								BULK	5 Vol

End and retention of Data. 252

Volume of bottles to be retrieved empty cylinder to be return 256

Number

Print Form

FIG.10F

Page 6: Calculation

Association 263

Organisation of Labs in groups

Lab X Lab Y Lab Z Result Lab X + Z

Start Calculation 261

Selection Lab or Group Gas and Purity

Example of output

GAS : HELIUM GRADE : ALPHAGAS 2
Laboratory or laboratories concerned

Volume Liquid	volume gas/year	Max flow	Max pressure	Continuous supply requested	Request for generator	Analyser and technique	Name
Unit	Unit	Unit	Unit				
10 Wwk	105m ³	10 sccm	3 bar	Y/N	Y/N	GC/ECD	Jean
						HPLC	Pierre
						GC/FID	Paul

End and retention of Data 264

Return to Page 5 for Correction 259

Go to Page 7 for Constraints 259

260

262

FIG.10G

Page 7: Constraints

Selection 262

Gas Purity

Reminders 264

Total volume Min No Months Max Pressure Max Flow Total flow LAB

CLIENT CONSTRAINTS

Storage constraints:	No space for a container Bottles inside	<input type="checkbox"/>
Handling constraints:	No dedicated staff	<input type="checkbox"/>
Continuous supply requirement (Reminder)		<input type="checkbox"/>

AL SERVICES 270

	BROCHURE	WEB LINKS
Management of gas stocks and supplies _{az}	<input type="checkbox"/>	DATAL
Traceability of bottles _{az}	<input type="checkbox"/>	CYGA
Connections (compliance with draining procedures)	<input type="checkbox"/>	AUDGAZ
Preventive and curative maintenance	<input type="checkbox"/>	SERVGAZ

AL CONSTRAINTS 268

Time between two rounds (GAS)	DAYS
Time between two rounds (LIQUID)	DAYS
Validation by Logistics Department	<input type="checkbox"/>

This button must be operated before the offer is produced

End and retention of Data 272

return to page 5 for Correction

Go to Page 8 for Choice

260

266

FIG.10H

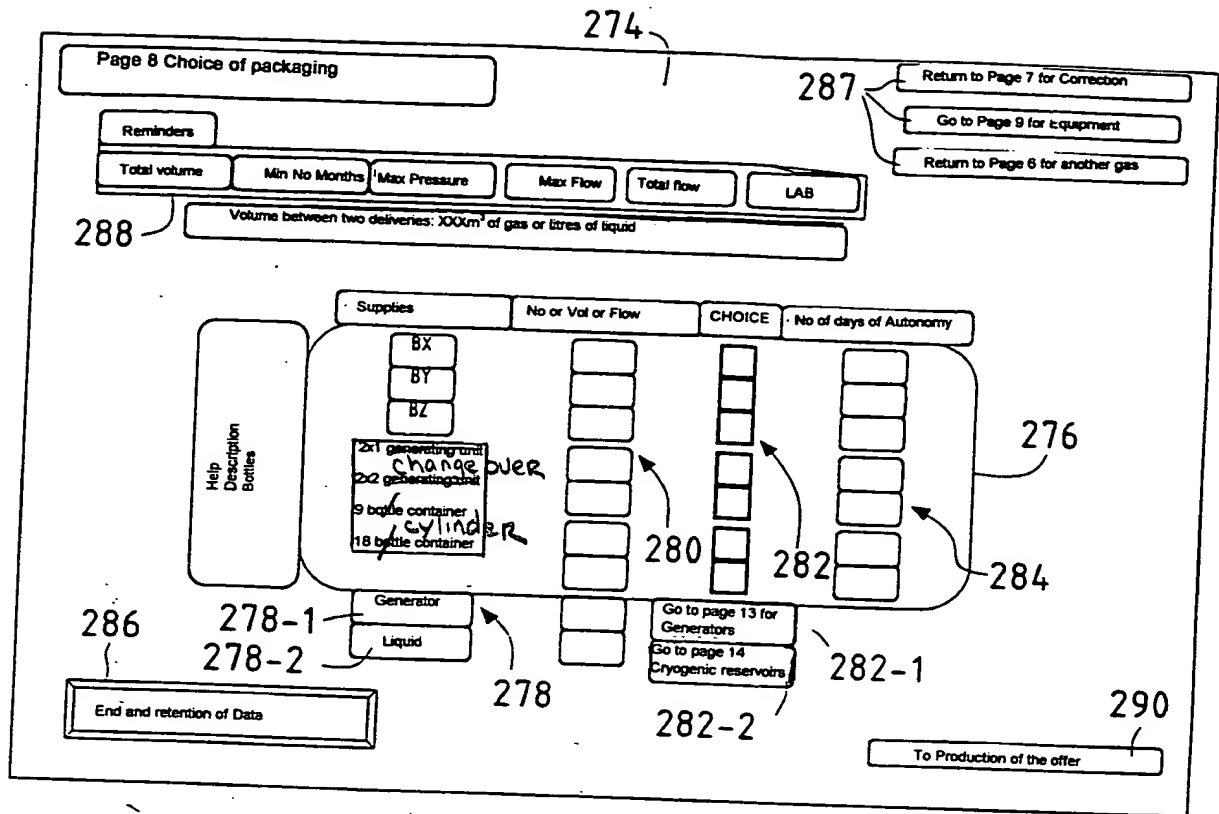


FIG.10I

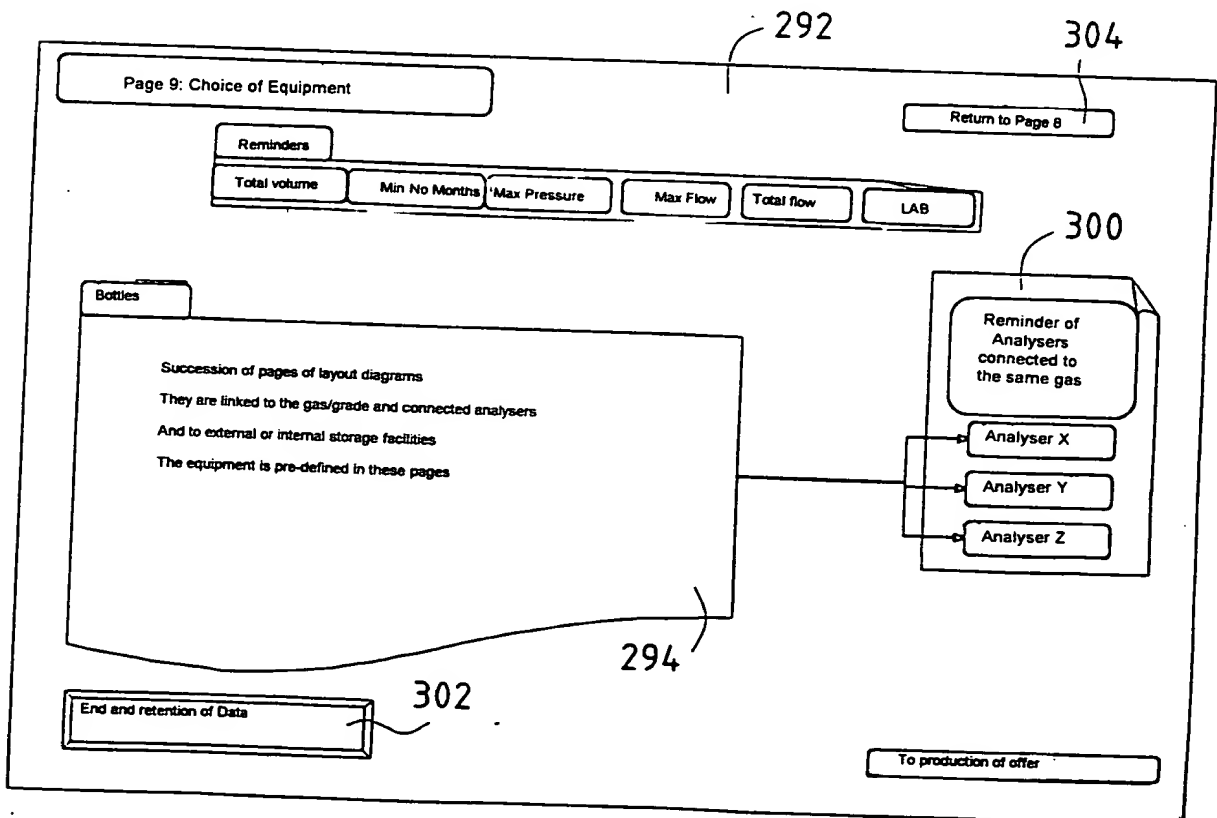


FIG.10J

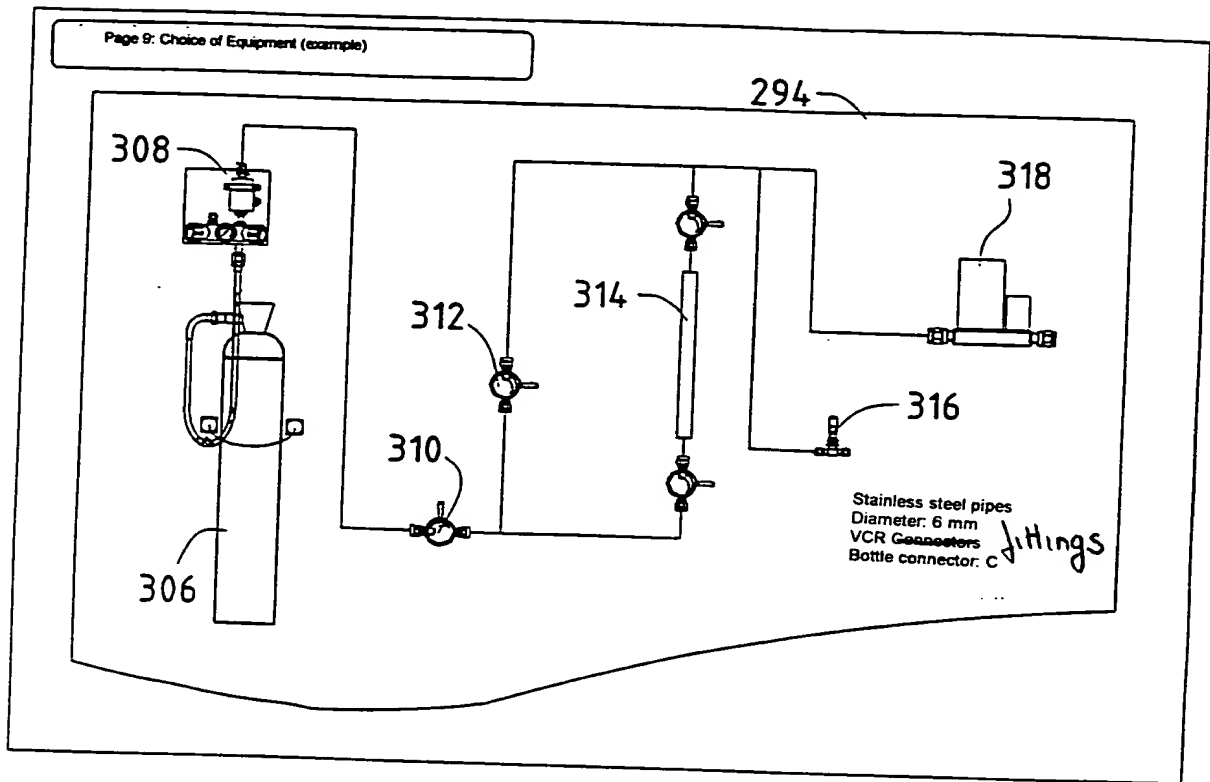


FIG.10K

Page 10 Flash Order: Pure Gasses

Laboratory Name of Analyser Name of manager

To be entered if necessary

330 346

Button to Return to Page 2

334 338

332 Gas ▾ Continuous supply ?

336 Grade ▾ No of bottles/week/month

340

Bottle size

342

This tab can be pressed as many times as there are different requirement

344

HELP: Description of bottles

348

To production of offer

FIG.10L

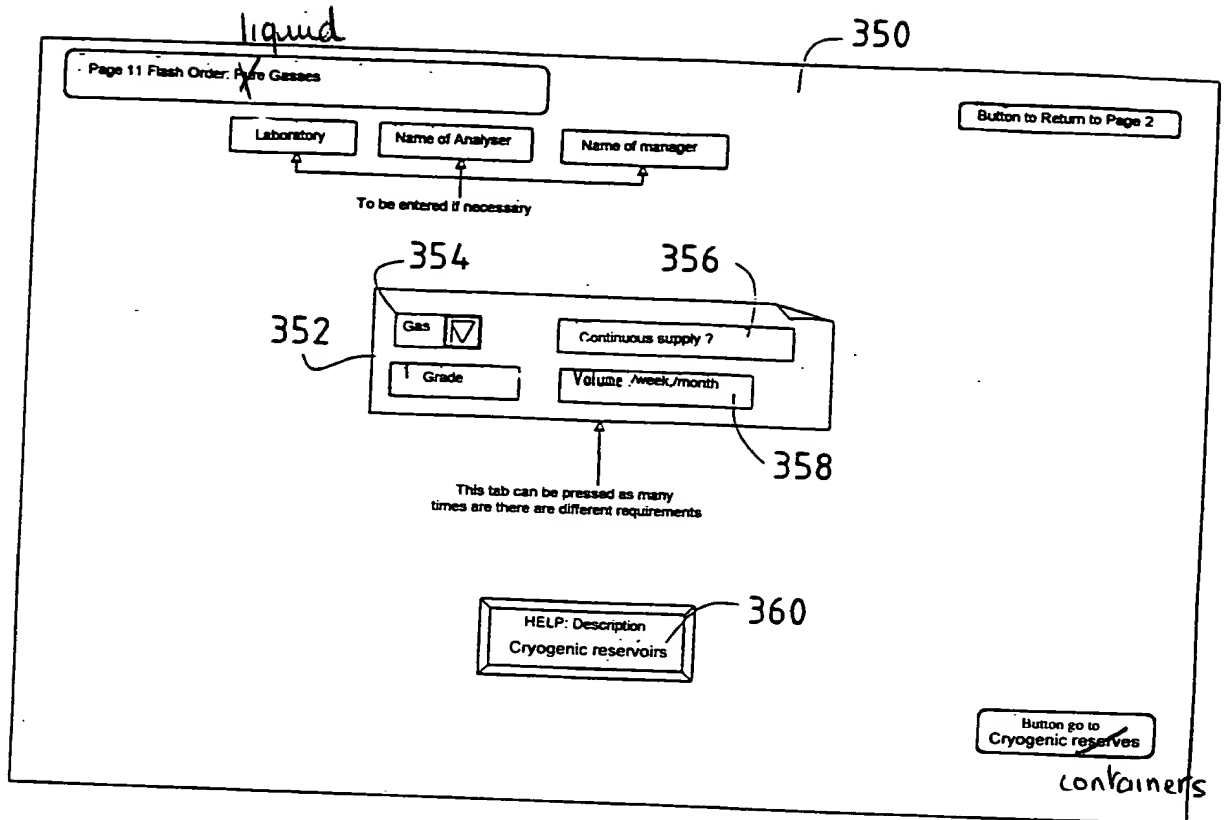


FIG.10M

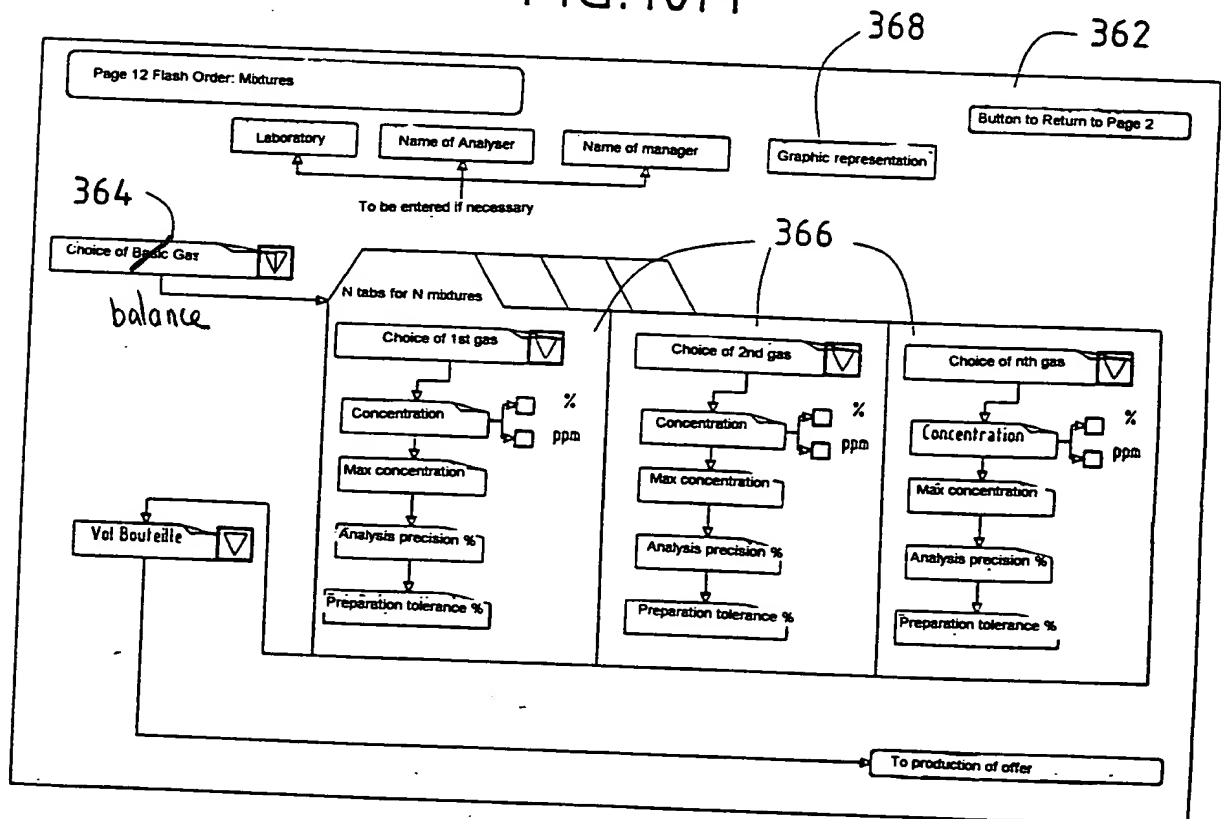


FIG.10N

370

Page 13 Choice of Generator

Reminders

Total volume Min No Months Max pressure Max flow Total flow LAB

374

Total flow requested: XX V/hour

378

380

Button to Return to Page 2

Button to Return to Page 8

Choice of an air compressor

	Plus	Choice
Air Flow 1000	<input type="checkbox"/>	<input type="checkbox"/>
Air Flow 7000	<input type="checkbox"/>	<input type="checkbox"/>
H2 Flow 150	<input type="checkbox"/>	<input type="checkbox"/>
H2 Flow 300	<input type="checkbox"/>	<input type="checkbox"/>
H2 Flow 600	<input type="checkbox"/>	<input type="checkbox"/>
H2 Flow 1100	<input type="checkbox"/>	<input type="checkbox"/>
H2 Flow 2000	<input type="checkbox"/>	<input type="checkbox"/>

372

HIRE
or
PURCHASE

386

374 382

To Production of the offer

FIG.100

388

Page 14 choice of Cryogenic reservoir container

Reminders

Total volume Min No Months Max Pressure Max Flow Total flow LAB

400

Volume between 2 deliveries: XXX m³ of gas or litres of liquid

390 container

	Plus	Choice
Cryogenic reservoir 180	<input type="checkbox"/>	<input type="checkbox"/>
Cryogenic reservoir 450	<input type="checkbox"/>	<input type="checkbox"/>
Cryogenic reservoir 630	<input type="checkbox"/>	<input type="checkbox"/>
Container TP 35	<input type="checkbox"/>	<input type="checkbox"/>
Container TP 60	<input type="checkbox"/>	<input type="checkbox"/>
Container TP 100	<input type="checkbox"/>	<input type="checkbox"/>

394

392

398

The models are displayed according to the gas chosen

To Production of the offer

396

Button to Return to page 3

Button to Return to page 8

FIG.10P

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402

Page 15 Fils Order: Equipment

Laboratory Name of Analyser Name of manager

To be entered if necessary

Pressure reducers 404

Valves 406

408

To Production of the offer

Return to page 3 button

FIG.10Q

Page 16

Return to Page ... button

410 412

AIR LIQUIDE

CLIENT : _____

GAS

Code....

Number of bottles

Others

PRICE

EQUIPMENT

Ref.....

Number.....

MIXTURES

Ref.....

Number of bottles.....

Total price.....

FIG.10R